

CC11 Version 2nd (ELKO EP) - 916 MHz Ultra Low-Power Sub-GHz Transceiver Module

Features:

- Ultra low-power wireless application
- Wireless alarm and security systems
- Home and building automation
- Wireless alarm and security systems
- Industrial monitoring and control

CC11_V2-ELKO is a low-cost sub-1 GHz transceiver designed for very low-power wireless applications. The circuit is mainly intended for the ISM (Industrial, Scientific and Medical) and SRD (Short Range Device) frequency bands at 916 MHz.

RF Analog Features and performance

Interface:	SPI
Frequency band:	916,0 Mhz
Modulation:	GFSK (Digital modulation)
Frequency deviation:	254kHz
Transmitter bandwidth:	>500kHz
Max. output power:	0.00061W
Baudrate:	9k6
Dimensions:	19.5 x 18 mm
Antenne:	integrated
Shielding EMI:	metal
Receiver bandwidth:	650kHz
Frequency hopping:	Not
Antenna information:	3,5bBi antenna on PCB. The EUT uses unique specific antenna coupling/ non-detachable antenna.
Power requirements:	3V DC (The module is powered by the end/host device)

Regulatory Statements/Approval – user's manual/guide

FCC

This device complies with part 15 of the FCC rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation. Any changes or modifications not expressly approved by manufacturer could void the user's authority to operate the equipment.

Module/device is designed for internal use only in Elko ep. ELKO EP's will be installed in Elko ep products.

ELKO will have complete control of how it is used in end products.

IMPORTANT! Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.

The 2AFFA-0001 CC11_V2 - ELKO module has received regulatory approvals for modular devices in the United States. Modular device approval allows the ELKO EP to place the 2AFFA-0001 CC11_V2 - ELKO module inside a finished product and it does not require regulatory testing for an intentional radiator (RF transmitter), provided no changes or modifications are made to the module circuitry. Changes or modifications could void the authority to operate the equipment. ELKO EP module must comply with all of the instructions necessary for compliance. ELKO EP is still responsible for testing the end product for any additional compliance requirements required with this module installed (digital device emission, PC peripheral requirements, etc.) in the specific country that the end device will be marketed. For more information on regulatory compliance, refer to the specific country radio regulations in the following sections.

The 2AFFA-0001 CC11_V2 - ELKO has received Federal Communications Commission (FCC) CFR47 Telecommunications, Part 15 Subpart C “Intentional Radiators” 15.247 and limited modular approval in accordance with Part 15.212 Modular Transmitter approval. The module 2AFFA-0001 CC11_V2 - ELKO can be integrated into a finished product without obtaining subsequent and separate FCC certification. This module will be used only in ELKO devices, where the installations of the module are in accordance with assembly instructions to ensure compliance is maintained. In outside of the end device into which the module is installed must display a label referring to the enclosed module.

Apiled antenne is for used this module only. This antene is part of PCB (PWB) motive. It is not possible to use a different antenna. The antenna(s) used for this transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

§15.105 Information to the user end equipment.

(b) For a Class B digital device or peripheral, the instructions furnished the user shall include the following or similar statement, placed in a prominent location in the text of the manual:

Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- **Reorient or relocate the receiving antenna.**
- **Increase the separation between the equipment and receiver.**
- **Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.**
- **Consult the dealer or an experienced radio/TV technician for help.**

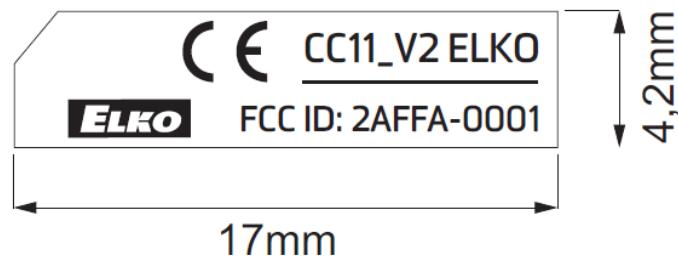
Radiation Exposure Statements

FCC Radiation Exposure Statement

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment.

CC11_V2 - ELKO - FOTOCC11_V2 - ELKO LABELING

On the EMI Shieding of modul will be placed this label.



The outside of the device into which the module is installed must also display a label referring to the enclosed module. This exterior label can use wording such as the following:

Contains FCC ID: 2AFFA-0001.

CC11_V2 - ELKO MODULE DETAILS - DIMENSIONS